



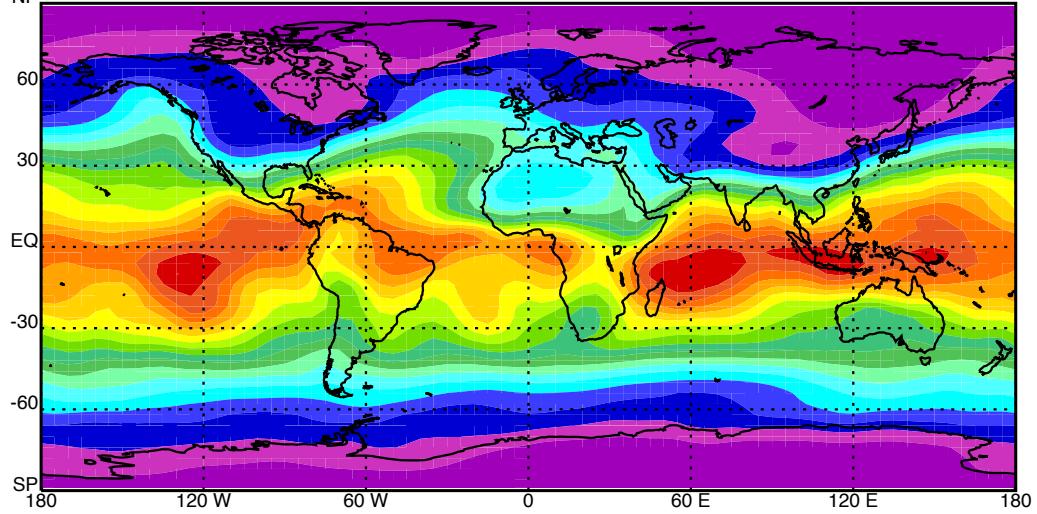
## **BUGSrad**

- **Based on the radiation transfer code developed by Fu and Liou (1992).**
- **Gaseous absorption is calculated using the correlated k-distribution method in 6 shortwave and 12 longwave spectral intervals (Fu and Liou 1992).**
- **It uses a delta-two stream and adding methods to calculate the fluxes in the 18 spectral intervals.**
- **Uses ADT theory to calculate the optical properties of water and ice clouds (Stephens et al. 1990).**

# PRECIPITABLE WATER (mm)

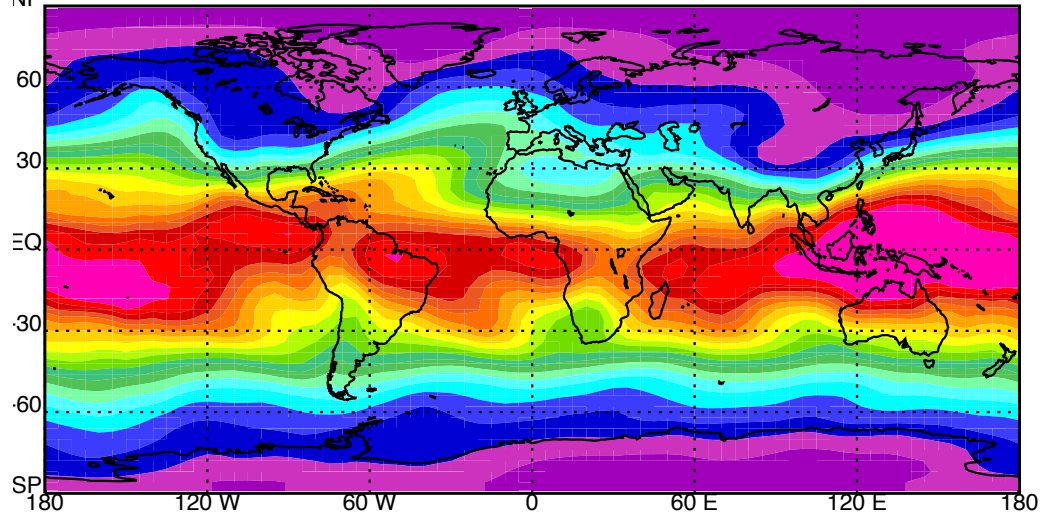
BUGSRAD SW: JANUARY.

Global Mean = 24.79



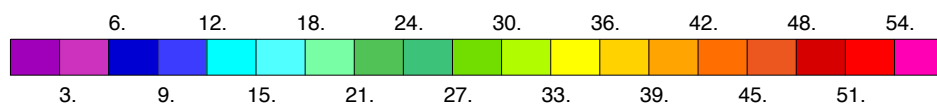
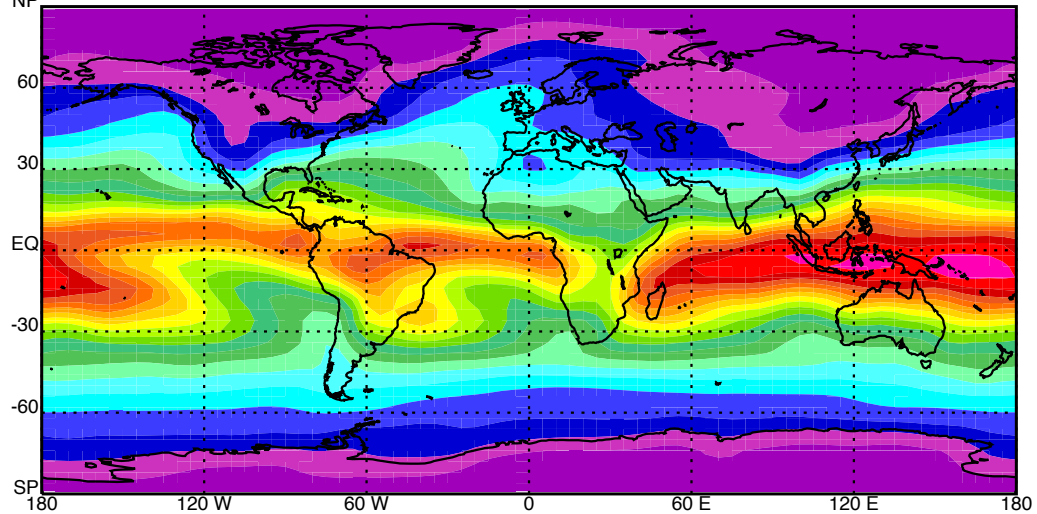
HARSHVARDHAN: JANUARY.

Global Mean = 29.48



NVAP: JANUARY.

Global Mean = 23.48





# TOA CLEAR-SKY OUTGOING LONGWAVE (W/m<sup>2</sup>)

